

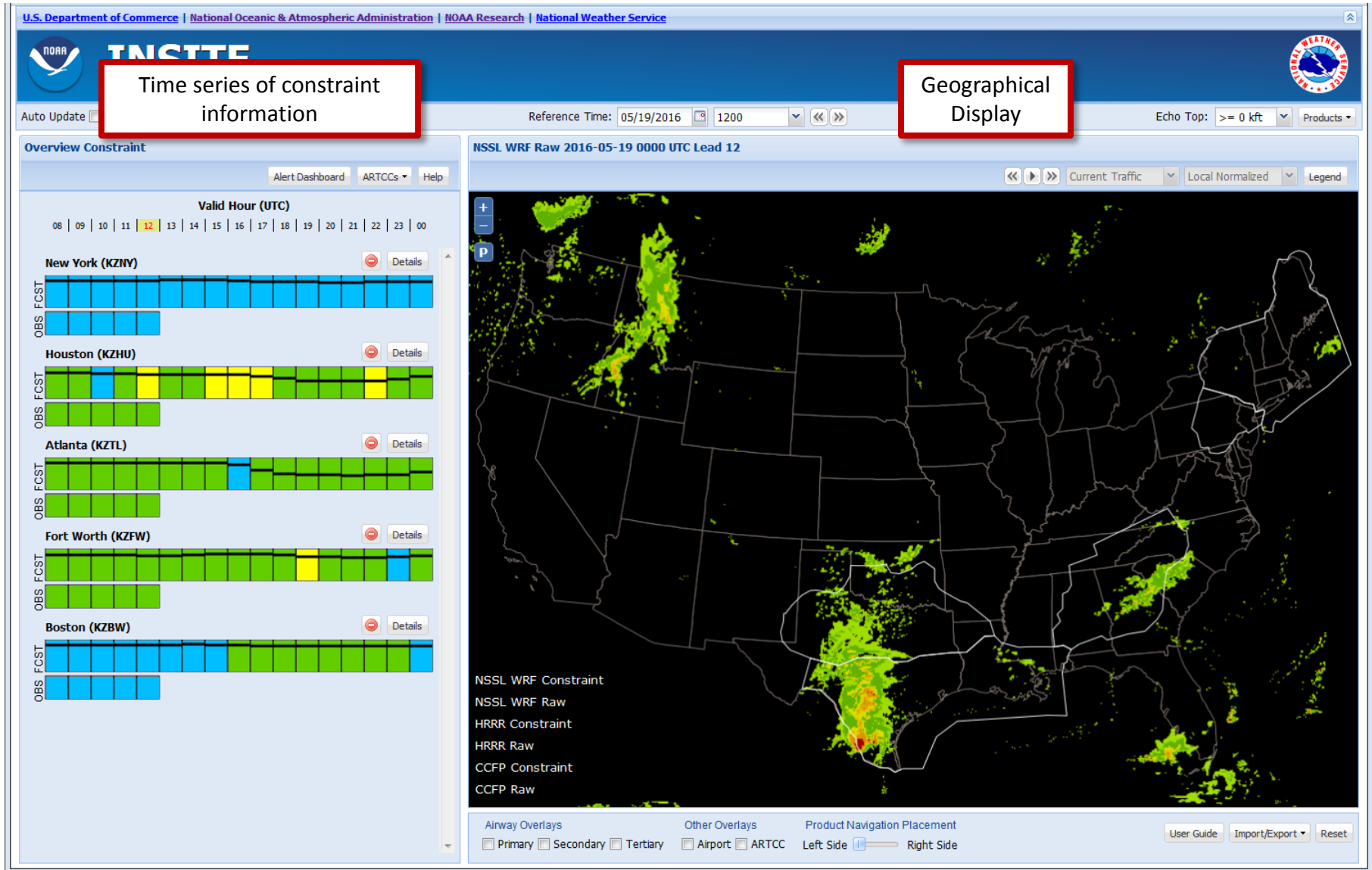
INSITE USER GUIDE

Forecast Impact and Quality Assessment Section

Updated 13 June 2016



Main Page



Product Selection

U.S. Department of Commerce | National Oceanic & Atmospheric Administration | NOAA Research | National Weather Service

INSITE

INtegrated Support for Impacted air-Traffic Environments

Auto Update ☐ Reference Time: 05/19/2016 1200

Overview Constraint

Alert Dashboard ARTCCs Help

Valid Hour (UTC)

	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	00
New York (KZNY)																	
Houston (KZHU)																	
Atlanta (KZTL)																	
Fort Worth (KZFW)																	
Boston (KZBW)																	

3) List of products for navigation appear here. Click product name to view.

Products

- ☐ Observation Raw
- ☐ Observation Constraint
- ☐ CIWS Raw
- ☐ CIWS Constraint
- ☒ CCFP Raw
- ☒ CCFP Constraint
- ☐ LAMP Raw
- ☐ LAMP Constraint
- ☐ SREF Raw
- ☐ SREF Constraint
- ☒ HRRR Raw
- ☒ HRRR Constraint
- ☒ NSSL WRF Raw
- ☒ NSSL WRF Constraint
- ☐ Experimental MRMS Raw
- ☐ Experimental MRMS Constraint
- ☐ Synthesis (High Res)
- ☐ Synthesis (All)

Select All Select None Apply

2) Check/uncheck products, click **Apply**.

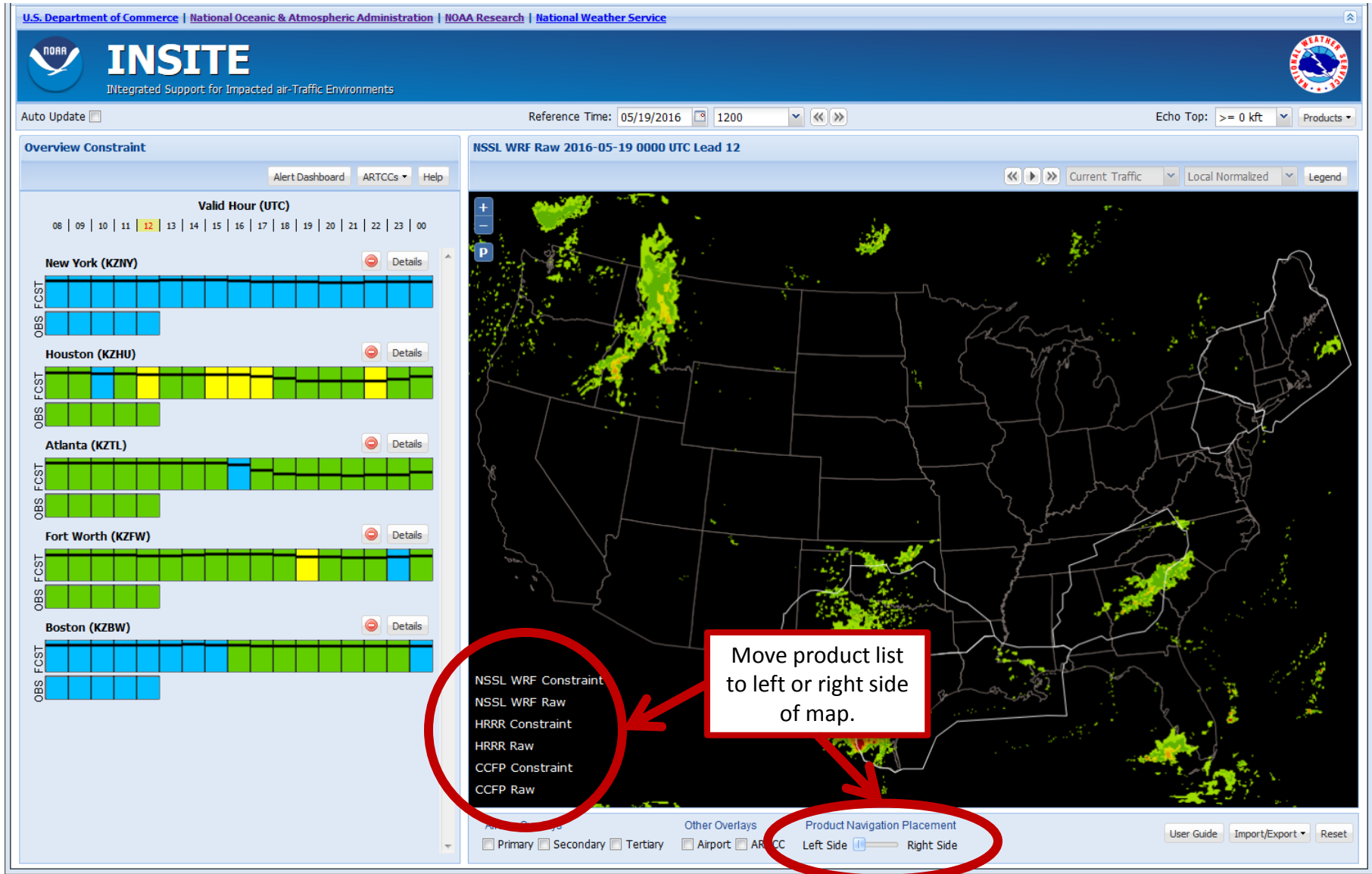
1) Click to choose products.

Airway Overlays Other Overlays Product Navigation Placement

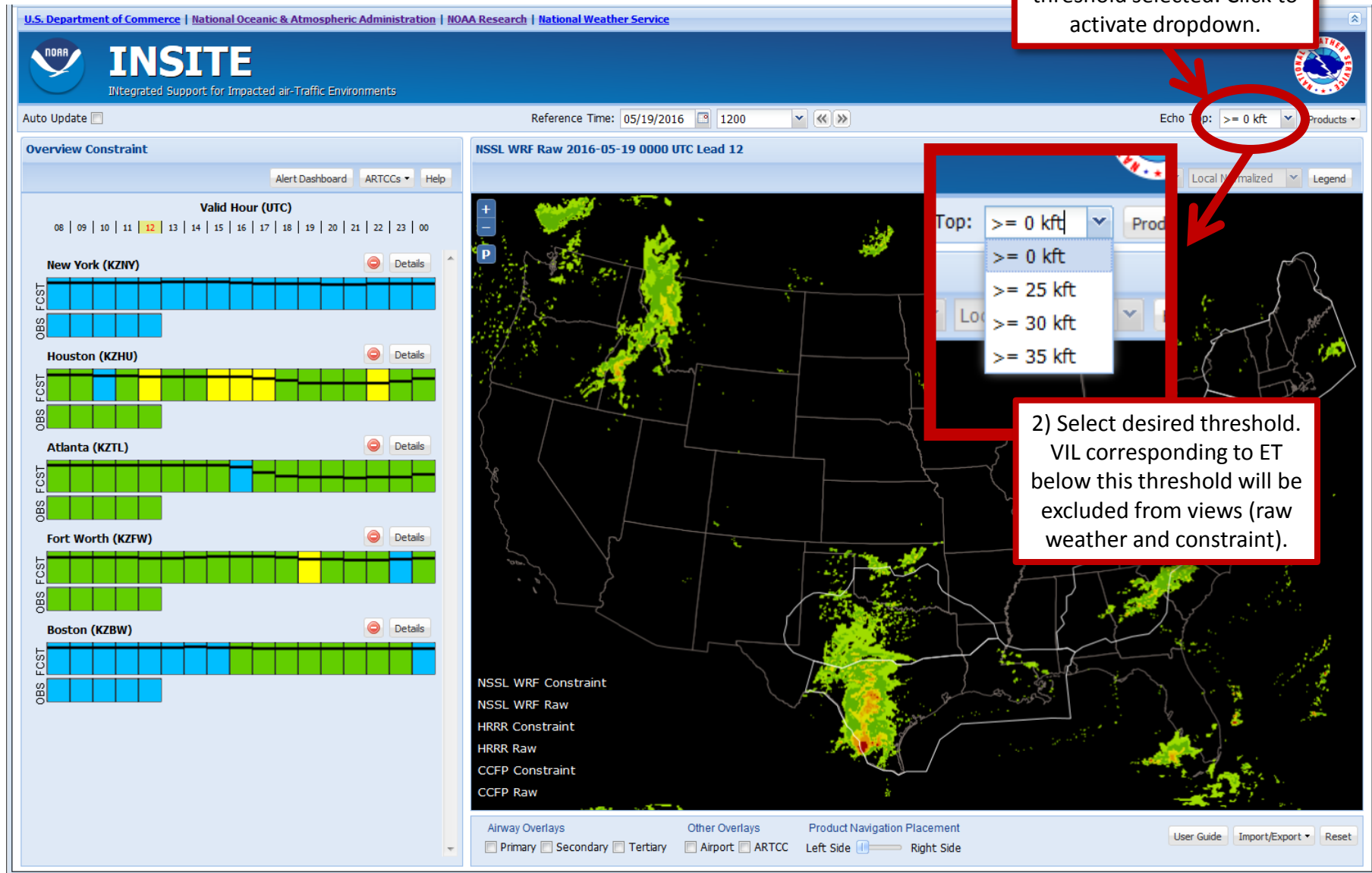
☐ Primary ☐ Secondary ☐ Tertiary ☐ Airport ☐ ARTCC Left Side Right Side

User Guide Import/Export Reset

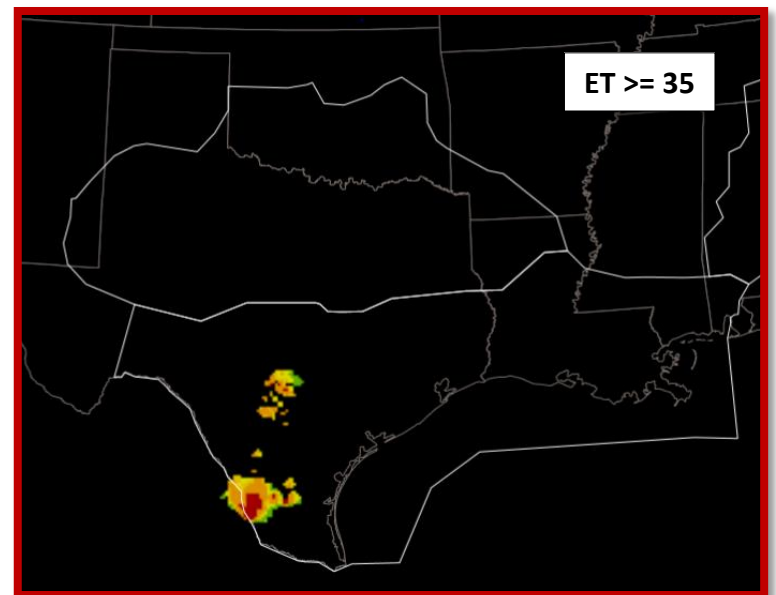
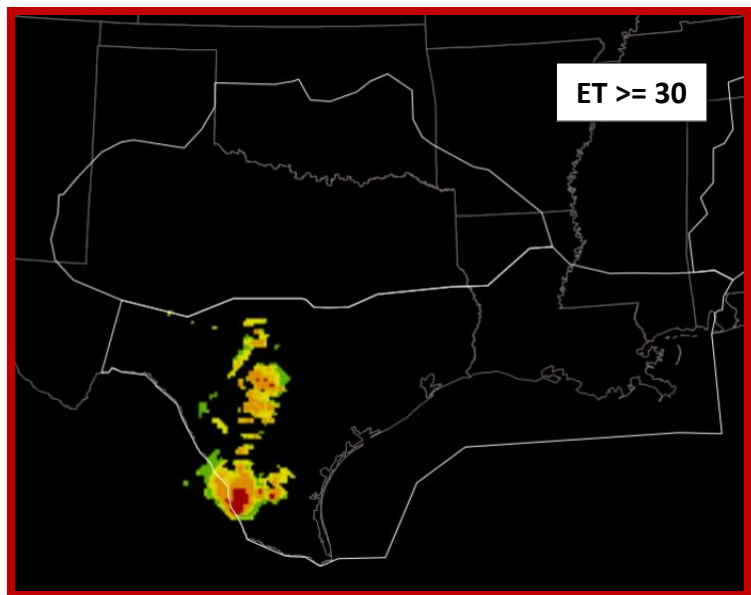
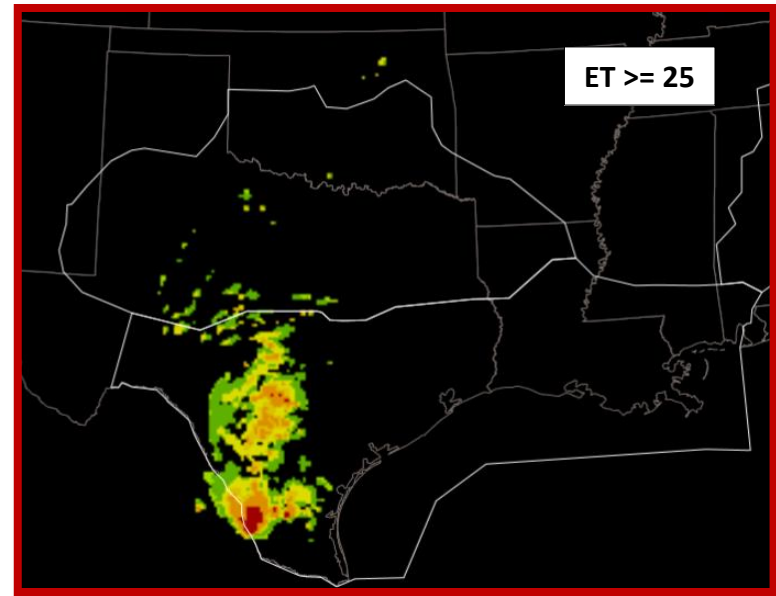
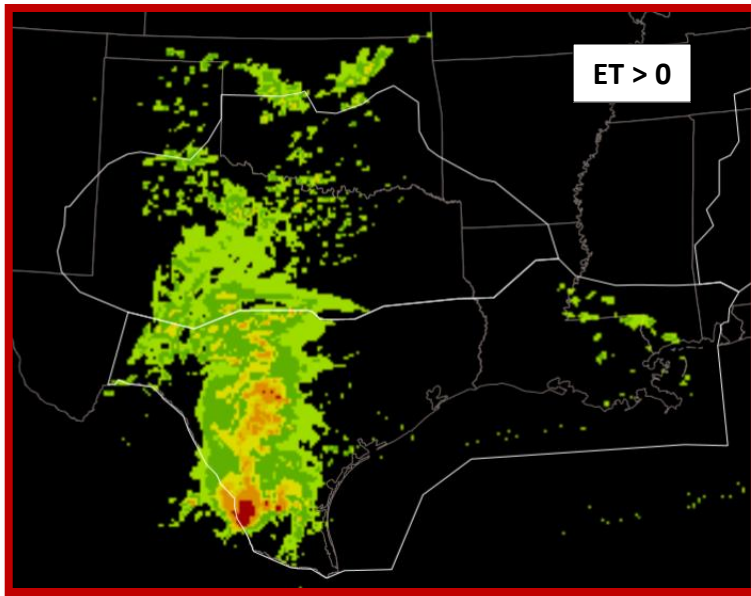
Product Controls



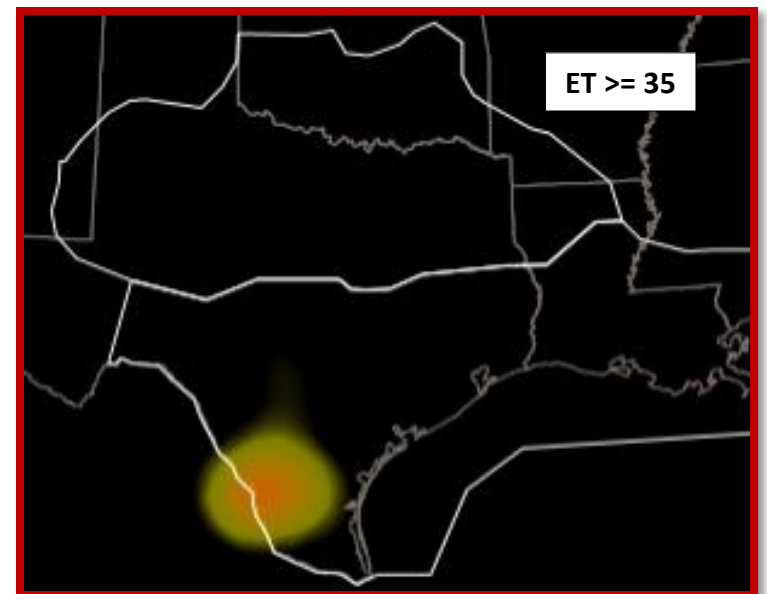
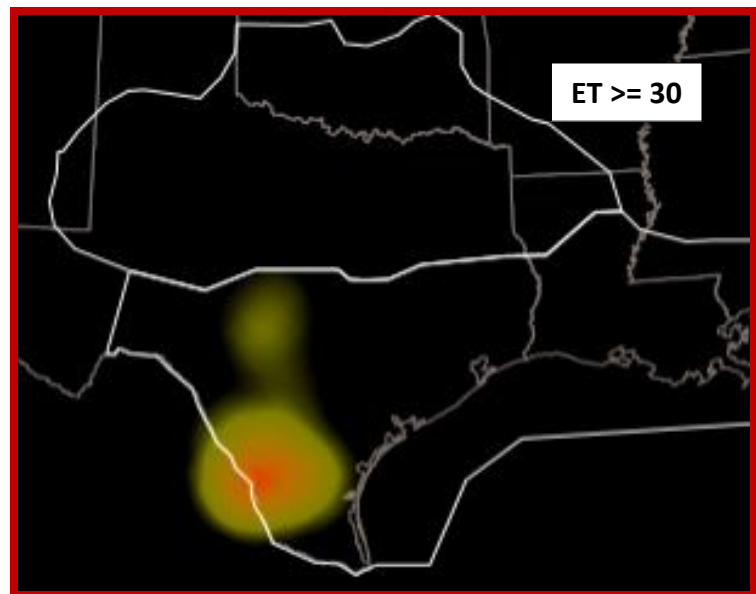
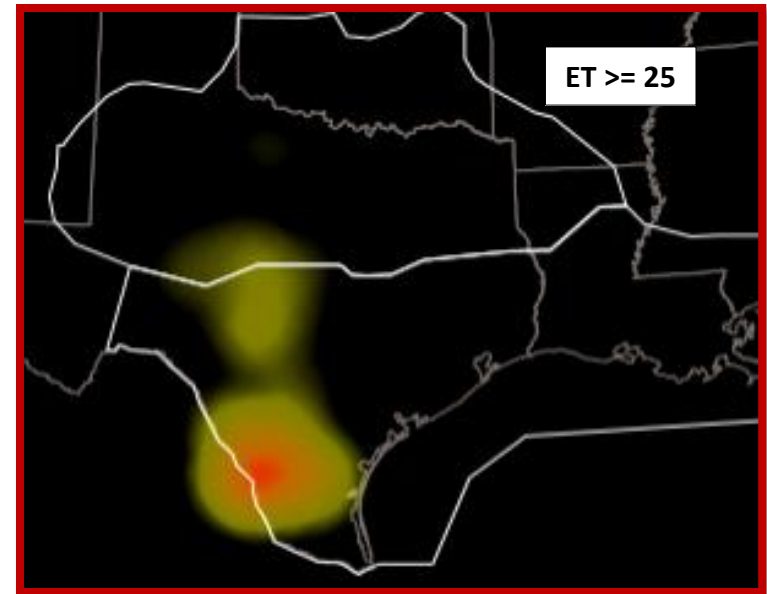
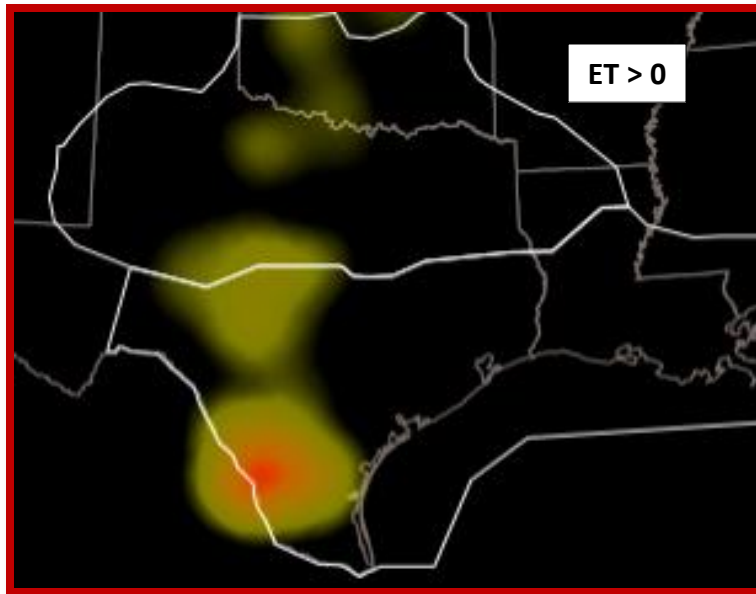
Echo Top Threshold



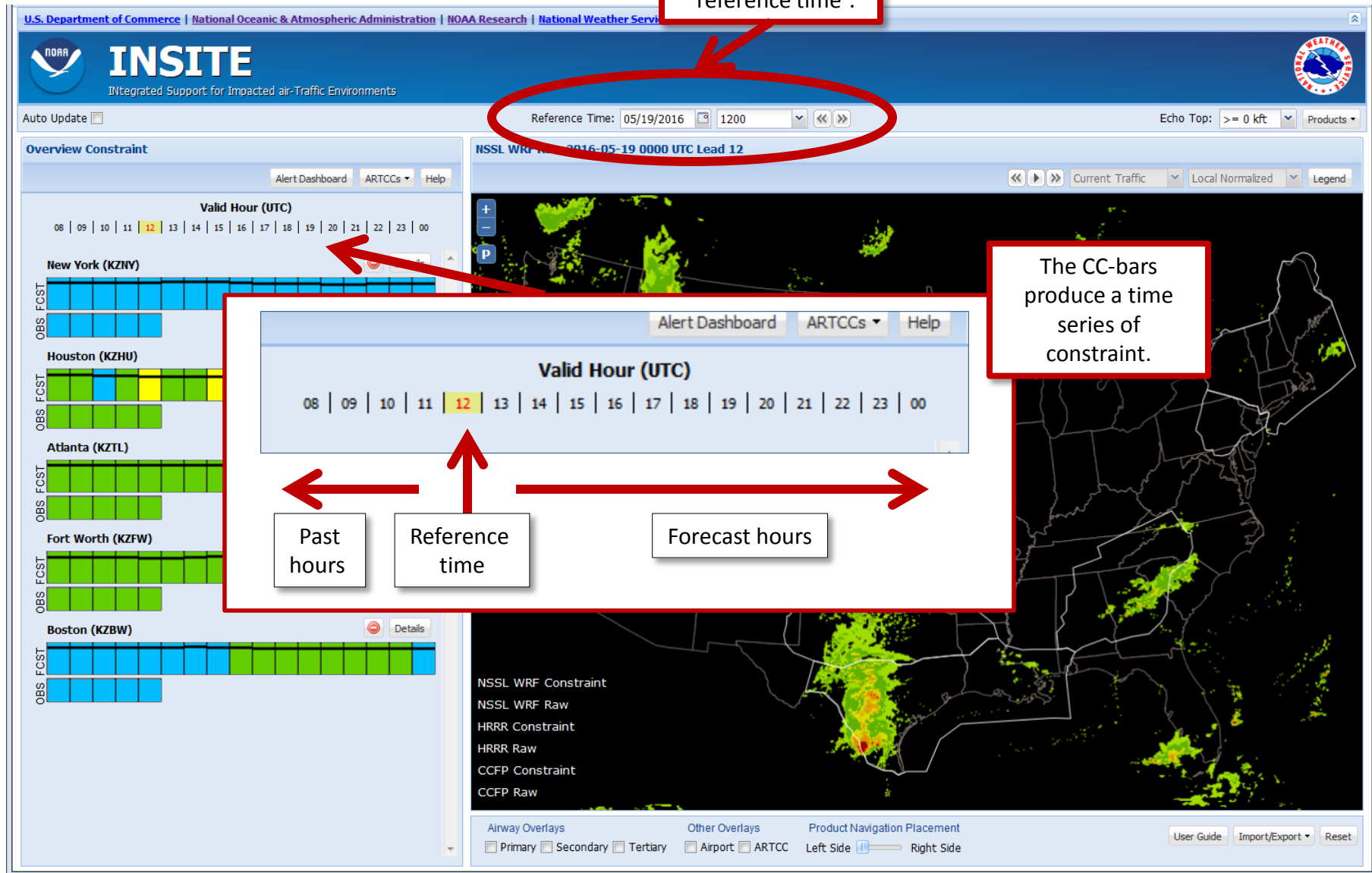
Echo Top Threshold – Raw products



Echo Top Threshold – Constraint Products



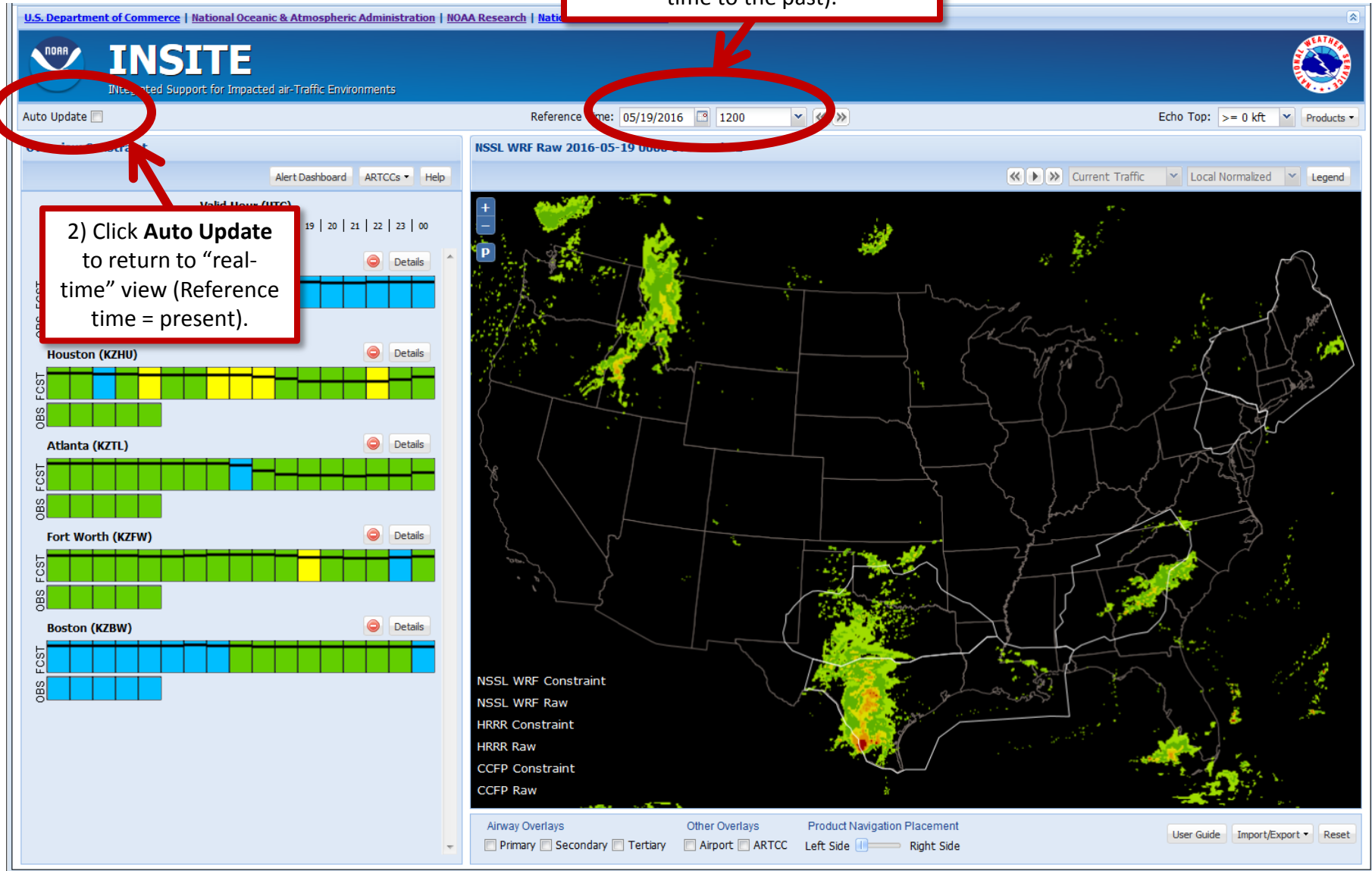
Date/Time Information



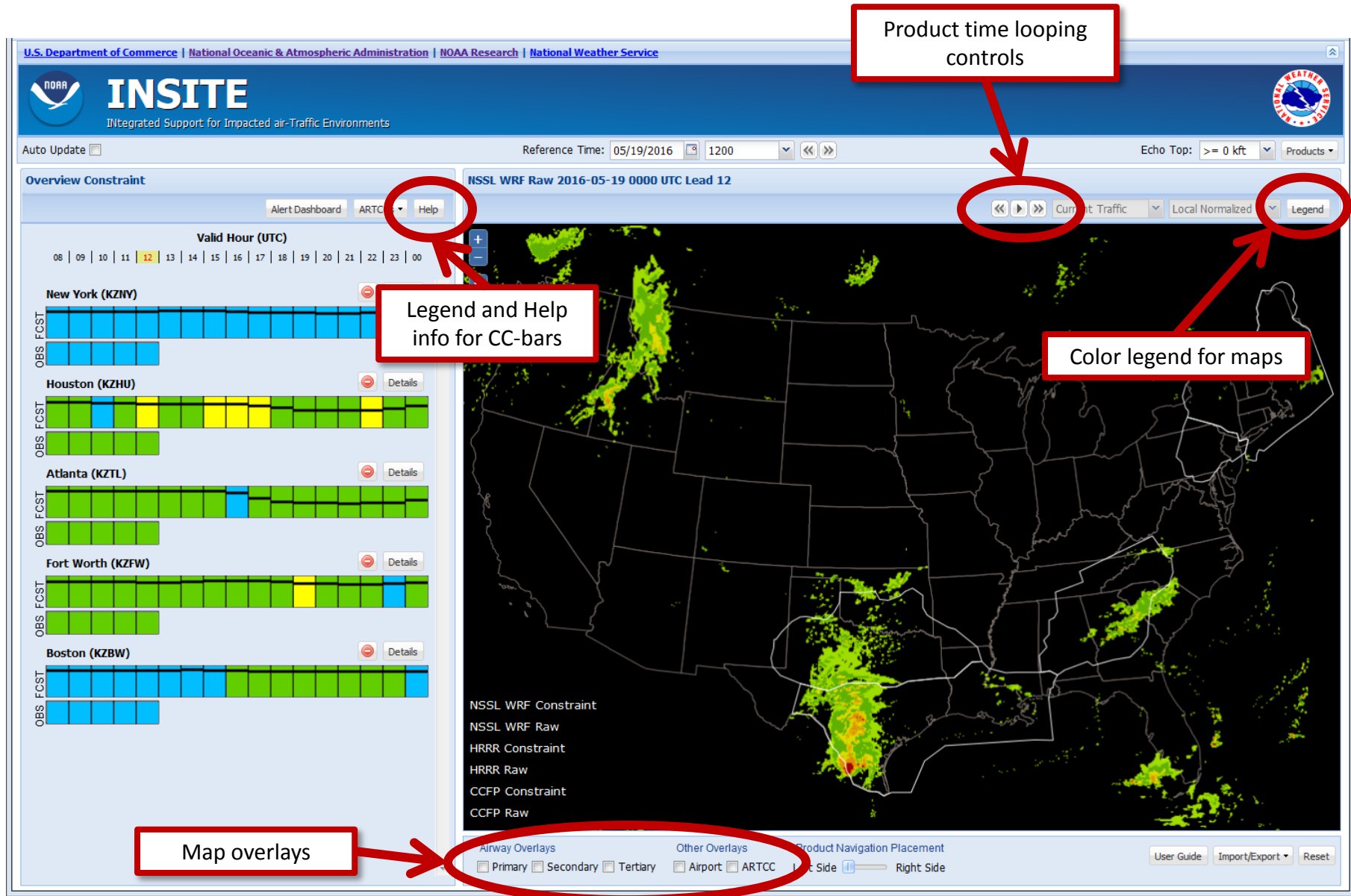
Date/Time Selection

1) Modify date and time to view historical data (Change reference time to the past).

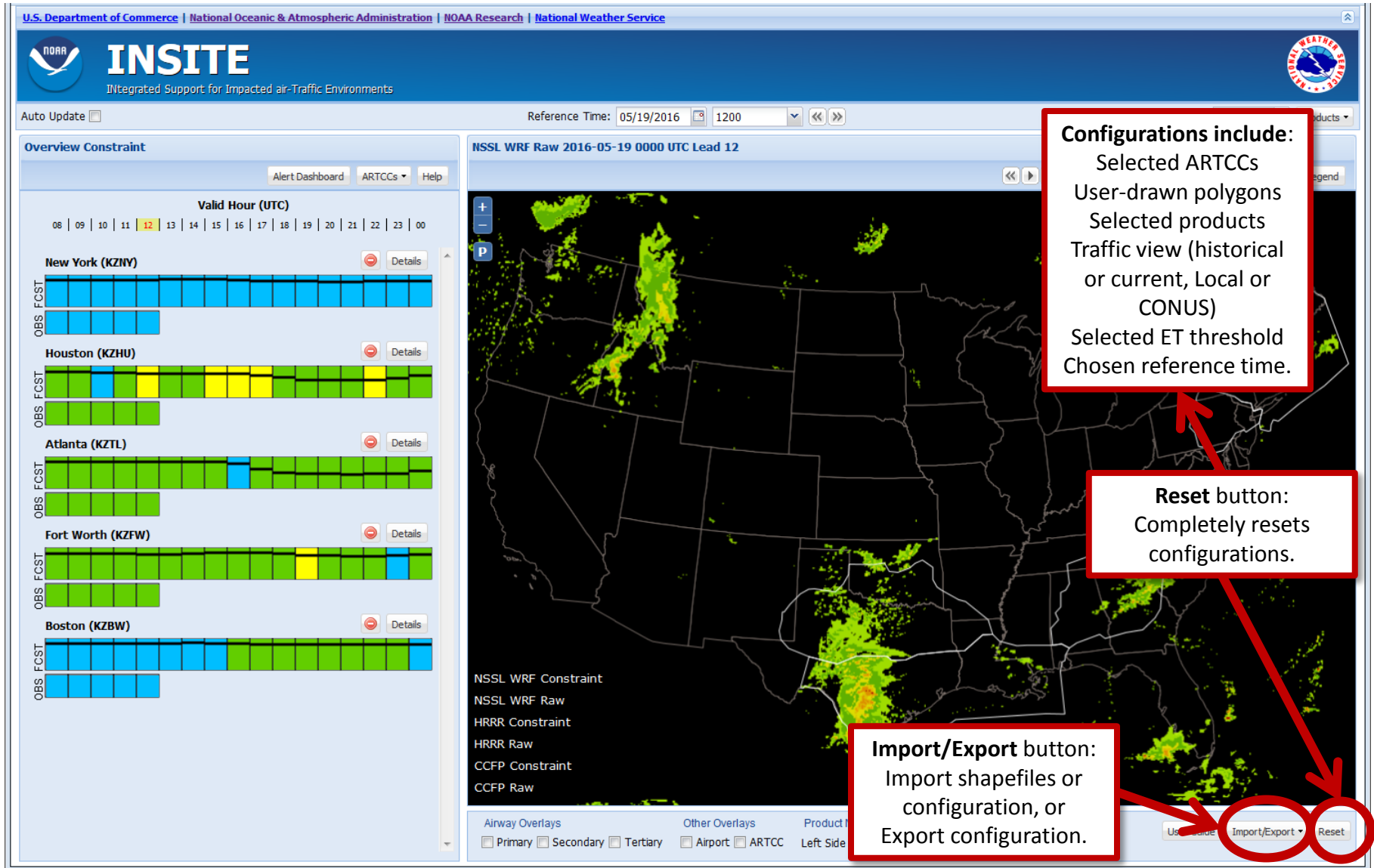
2) Click **Auto Update** to return to "real-time" view (Reference time = present).



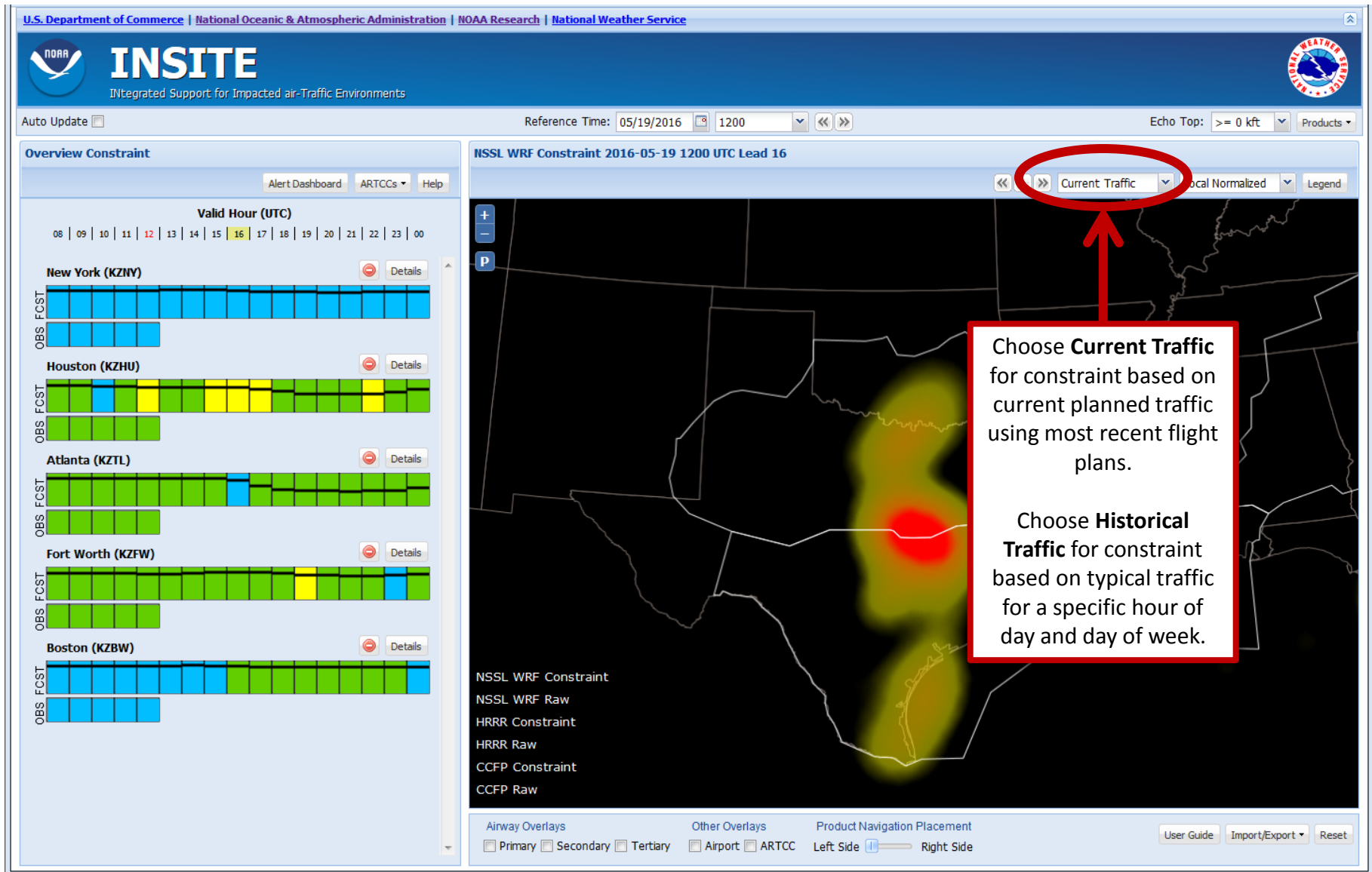
Map Display Controls



Tool Configurations

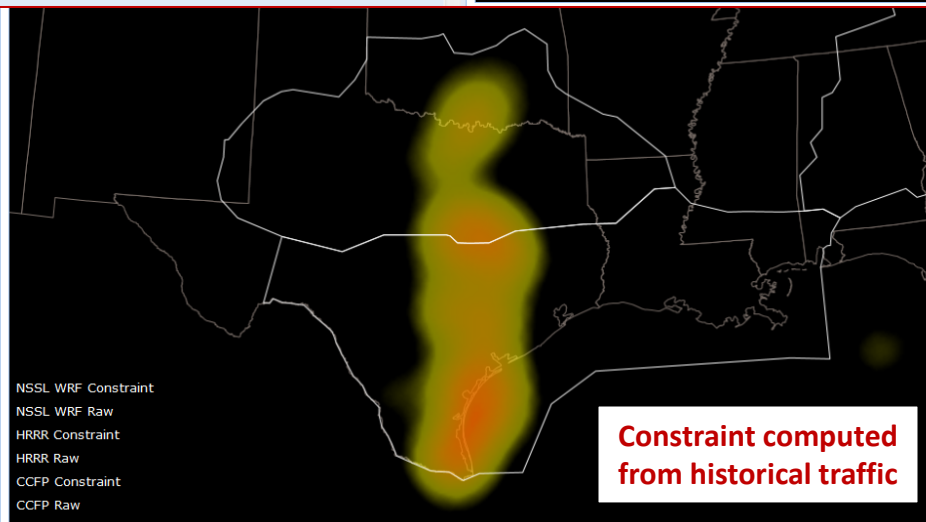
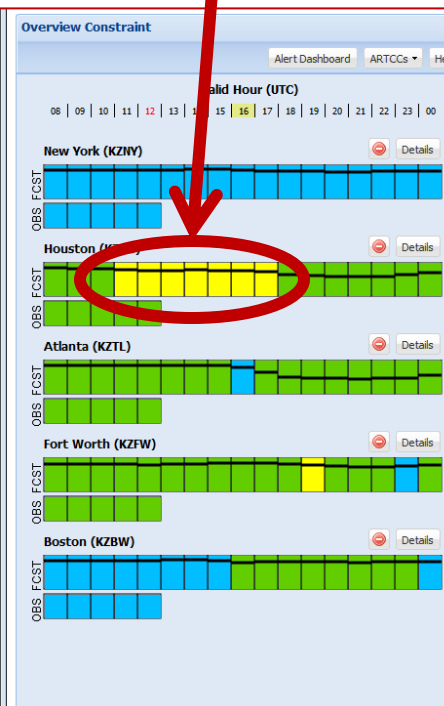
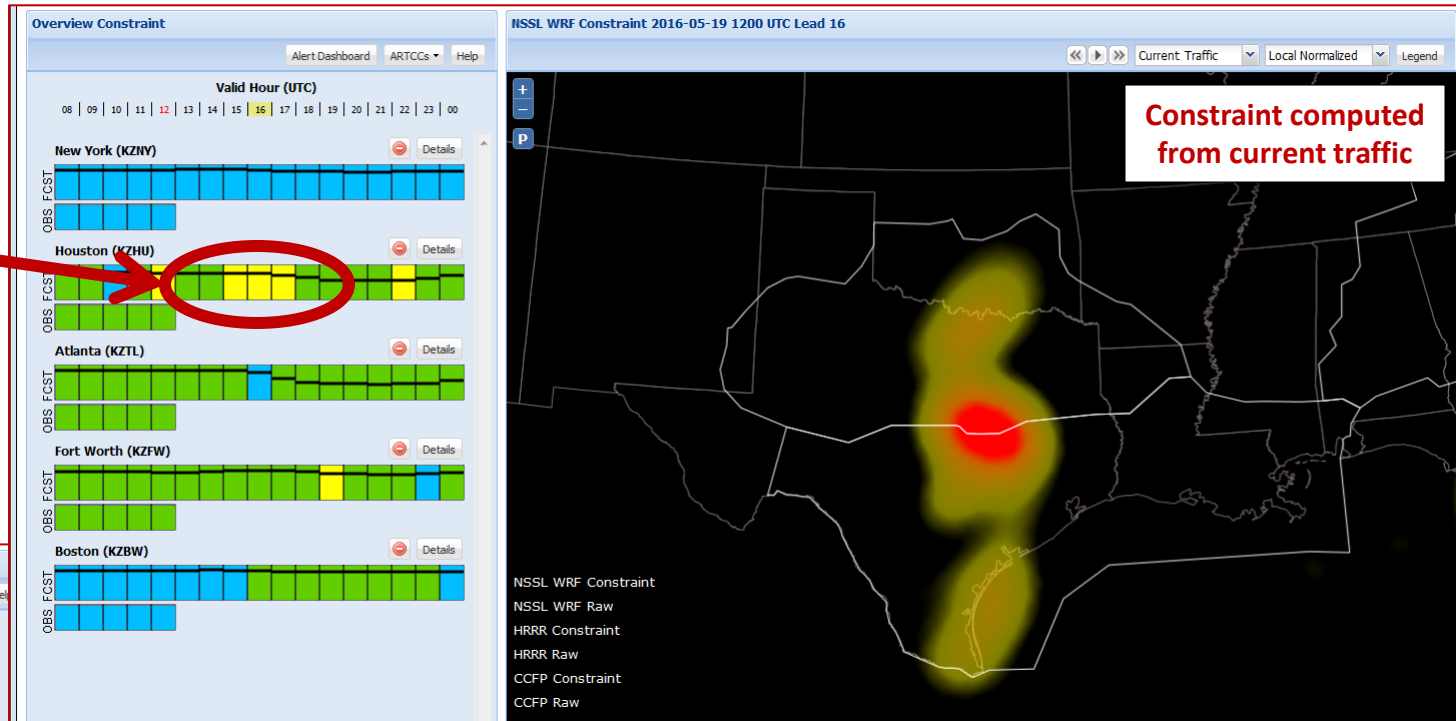


Constraint Views (Traffic Selection)

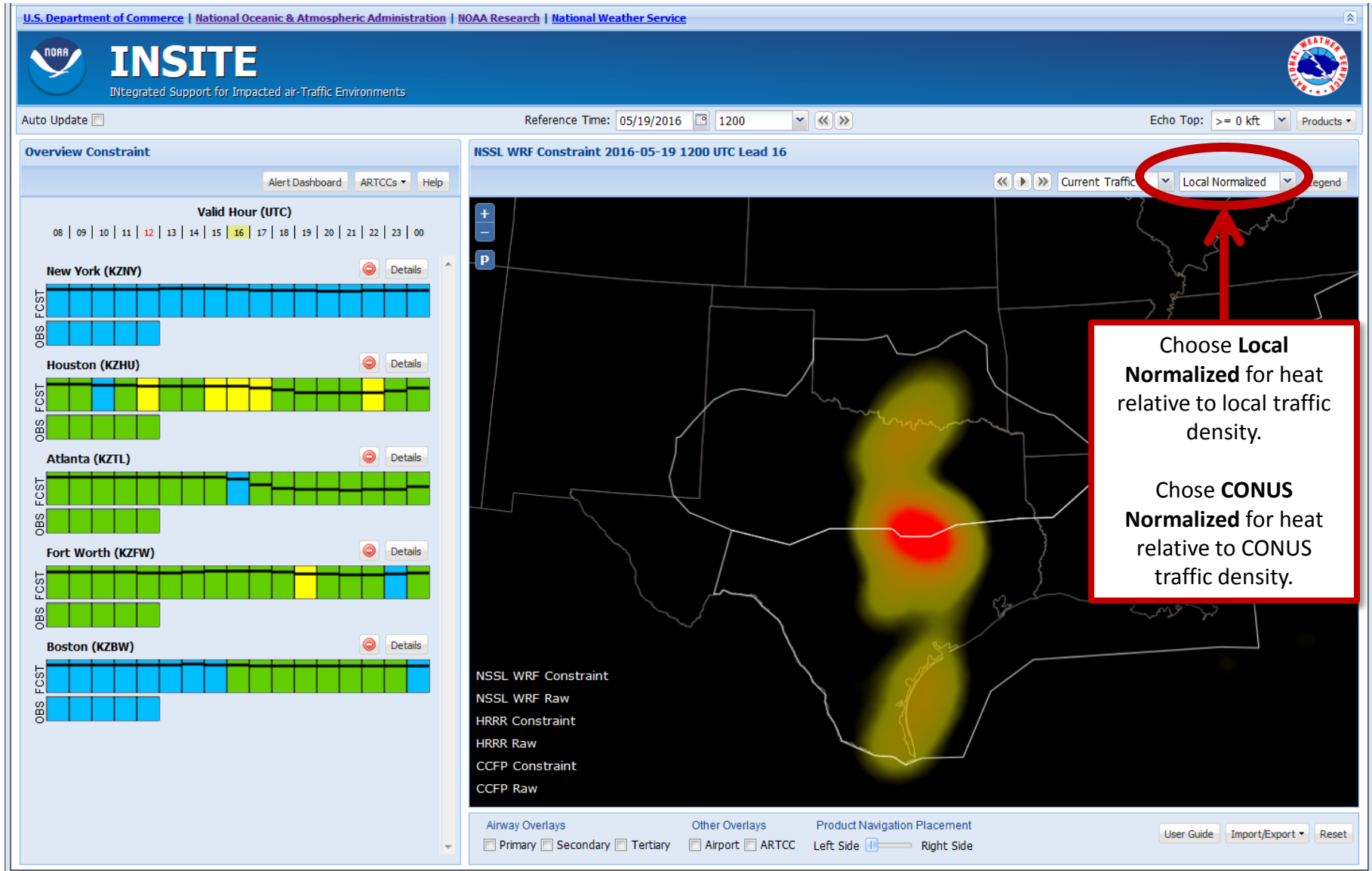


Constraint Views (Traffic Selection)

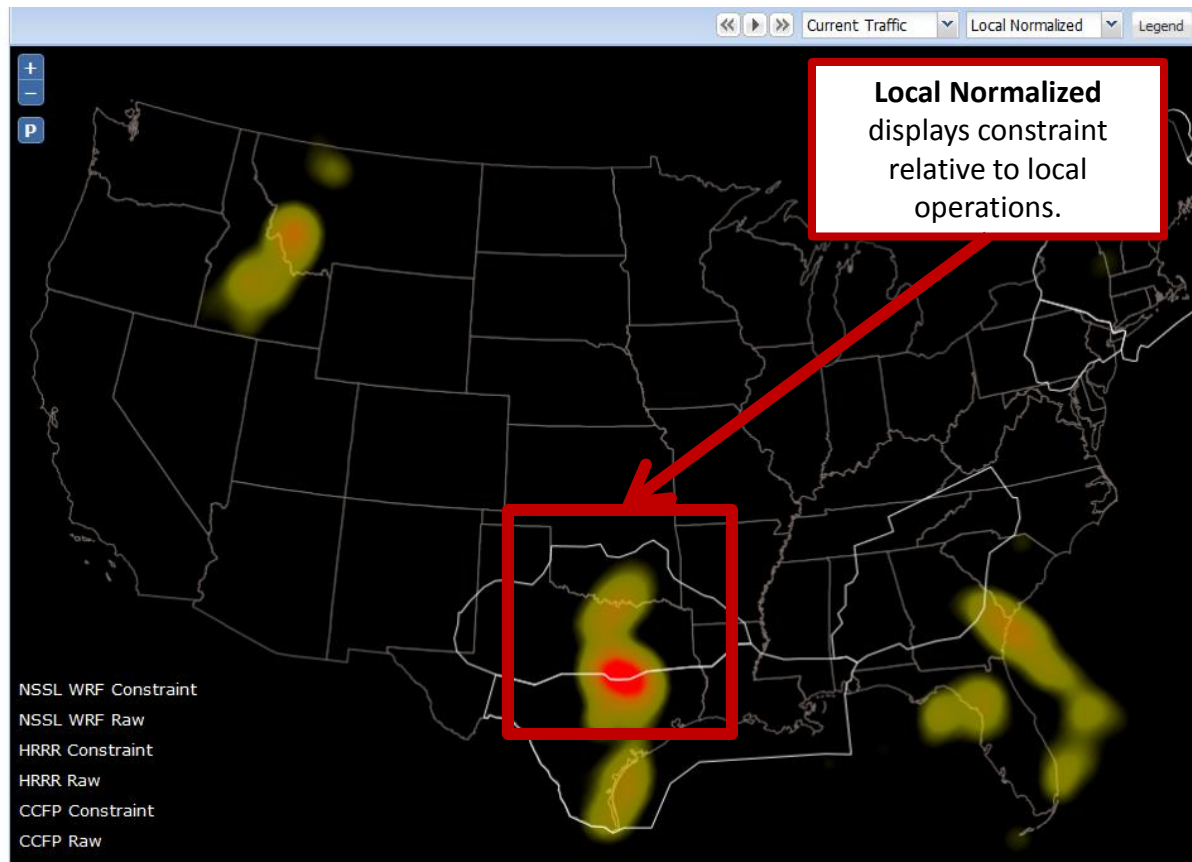
Traffic selection affects computed constraint, and therefore affects heat map and CC-bars.



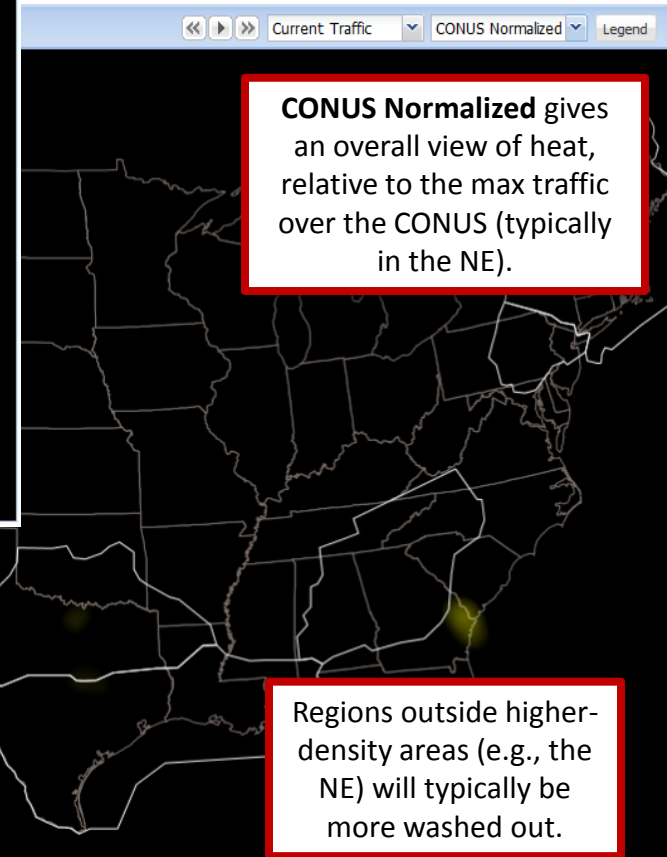
Constraint Views (Heat Presentation)



Constraint Views (Heat Presentation)



Local and CONUS Normalized views of same product, same time



CONUS Normalized = Where is NAS going to have problems?
Local Normalized = Where in NAS are there going to be local problems?

Regions outside higher-density areas (e.g., the NE) will typically be more washed out.

Alert Dashboard

U.S. Department of Commerce | National Oceanic & Atmospheric Administration | NOAA Research | National Weather Service

INSITE
Integrated Support for Impacted air-Traffic Environments

Auto Update ☐ Reference Time: 05/19/2016 1200 Echo Top: >= 0 kft Products

Overview Constraint

Alert Dashboard ARTCCs Help

Valid Hour (UTC): 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 00

New York (KZNY)

OBS FCST

Houston (KZHU)

OBS FCST

Atlanta (KZTL)

OBS FCST

Fort Worth (KZFW)

OBS FCST

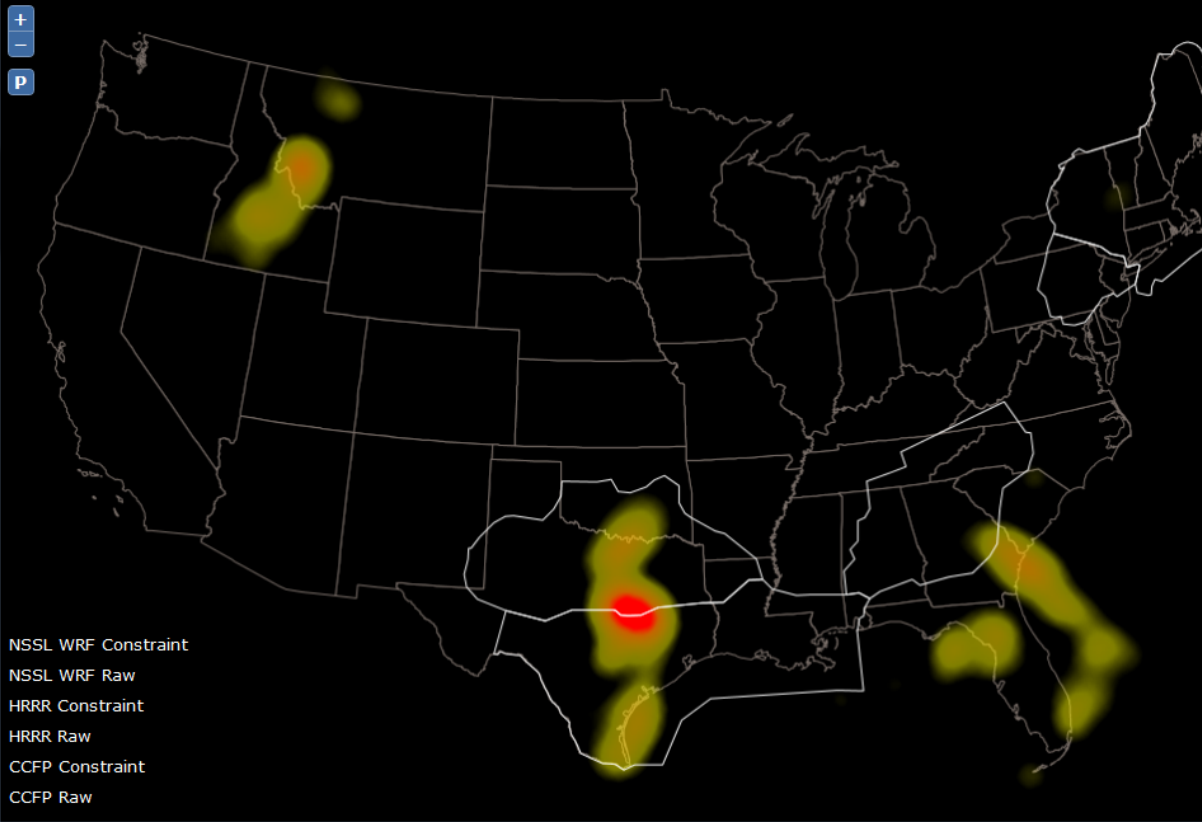
Boston (KZBW)

OBS FCST

Click to navigate to Alert Dashboard.

NSSL WRF Constraint 2016-05-19 1200 UTC Lead 16

Current Traffic Local Normalized Legend



NSSL WRF Constraint
NSSL WRF Raw
HRRR Constraint
HRRR Raw
CCFP Constraint
CCFP Raw

Airway Overlays Other Overlays Product Navigation Placement

☐ Primary ☐ Secondary ☐ Tertiary ☐ Airport ☐ ARTCC Left Side Right Side

User Guide Import/Export Reset

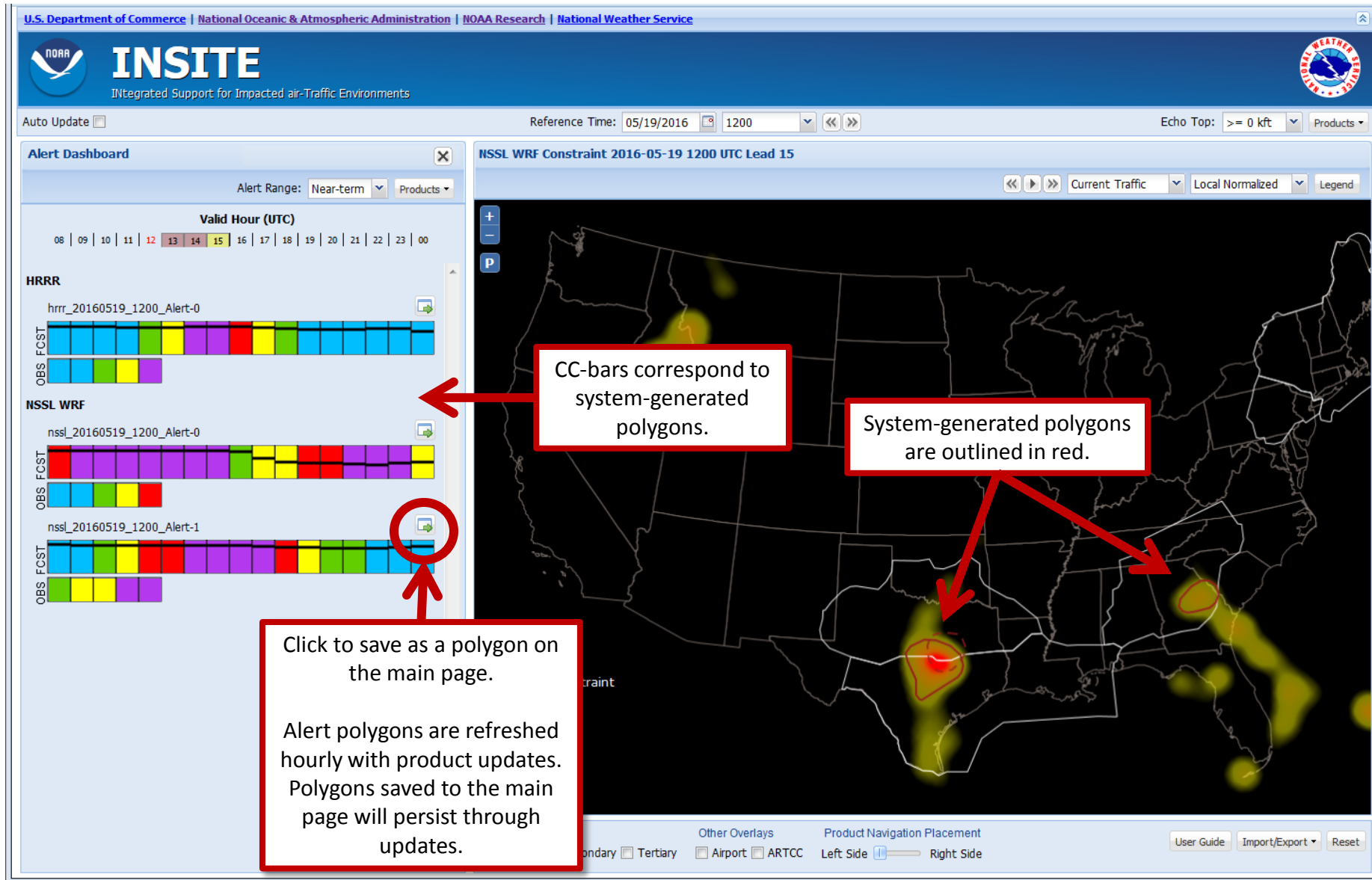
Alert Dashboard

The screenshot shows the INSITE Alert Dashboard. The top navigation bar includes links to the U.S. Department of Commerce, National Oceanic & Atmospheric Administration, NOAA Research, and National Weather Service. The main header displays the NOAA logo and the text "INSITE Integrated Support for Impacted air-Traffic Environments".

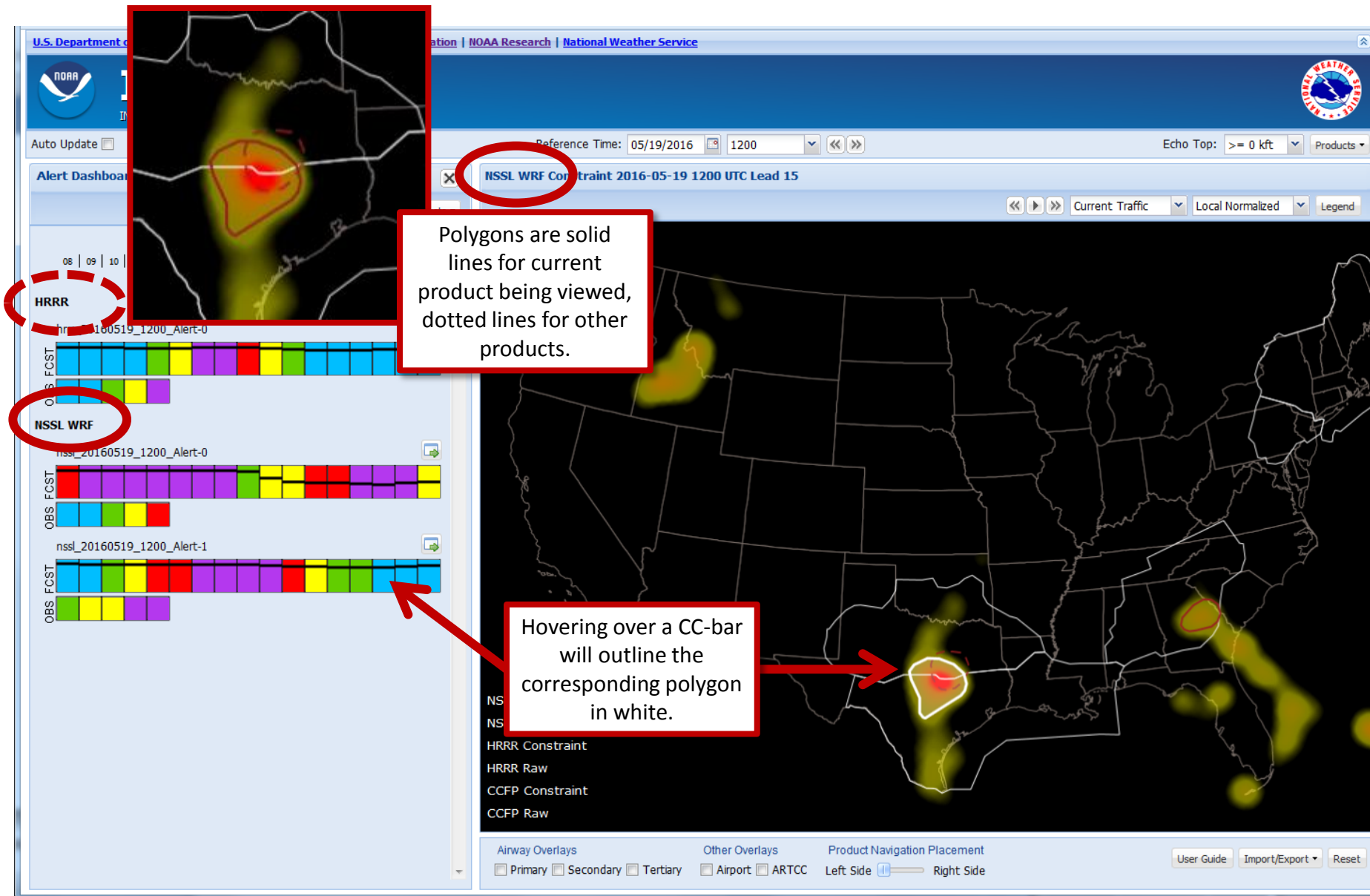
Key interface elements and annotations:

- Alert Range:** A dropdown menu set to "Near-term".
- Products:** A dropdown menu with a red circle around it and an arrow pointing to a "Products" list. A text box states: "1) Click to select products."
- Products List:** A modal window showing a list of products with checkboxes. The list includes: Observation, CIWS, CCFP, LAMP, SREF, HRRR (checked), NSSL WRF (checked), Synthesis (High Res), and Synthesis (All). Buttons at the bottom are "Select All", "Select None", and "Apply". A text box states: "2) Check the products that you want to trigger alerts."
- Alerts:** Three horizontal bar charts showing alert status for "HRRR", "NSSL WRF", and "NSSL WRF". Each chart has a "Valid Hour (UTC)" axis from 08 to 25. The "NSSL WRF" chart shows alerts for "Alert-0" and "Alert-1".
- Map:** A map of the United States showing high constraint regions outlined in red. A text box states: "System will outline regions of high constraint based upon product selections and traffic/heat normalization chosen."
- Map Controls:** A "Products" dropdown menu is visible on the map, and a "Legend" button is in the top right.
- Footer:** Includes "Airway Overlays" (Primary, Secondary, Tertiary), "Other Overlays" (Airport, ARTCC), "Product Navigation Placement" (Left Side, Right Side), and buttons for "User Guide", "Import/Export", and "Reset".

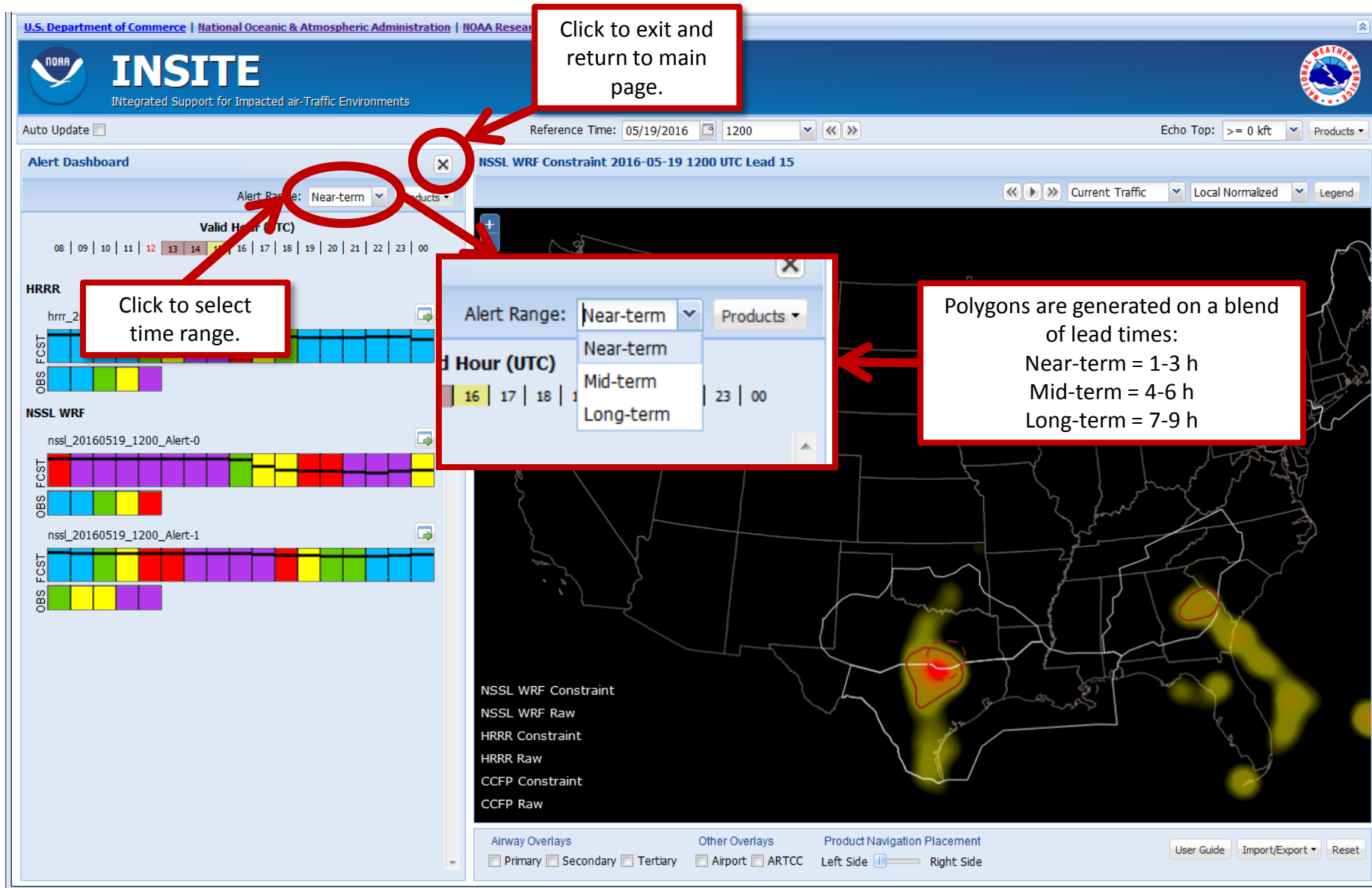
Alert Dashboard



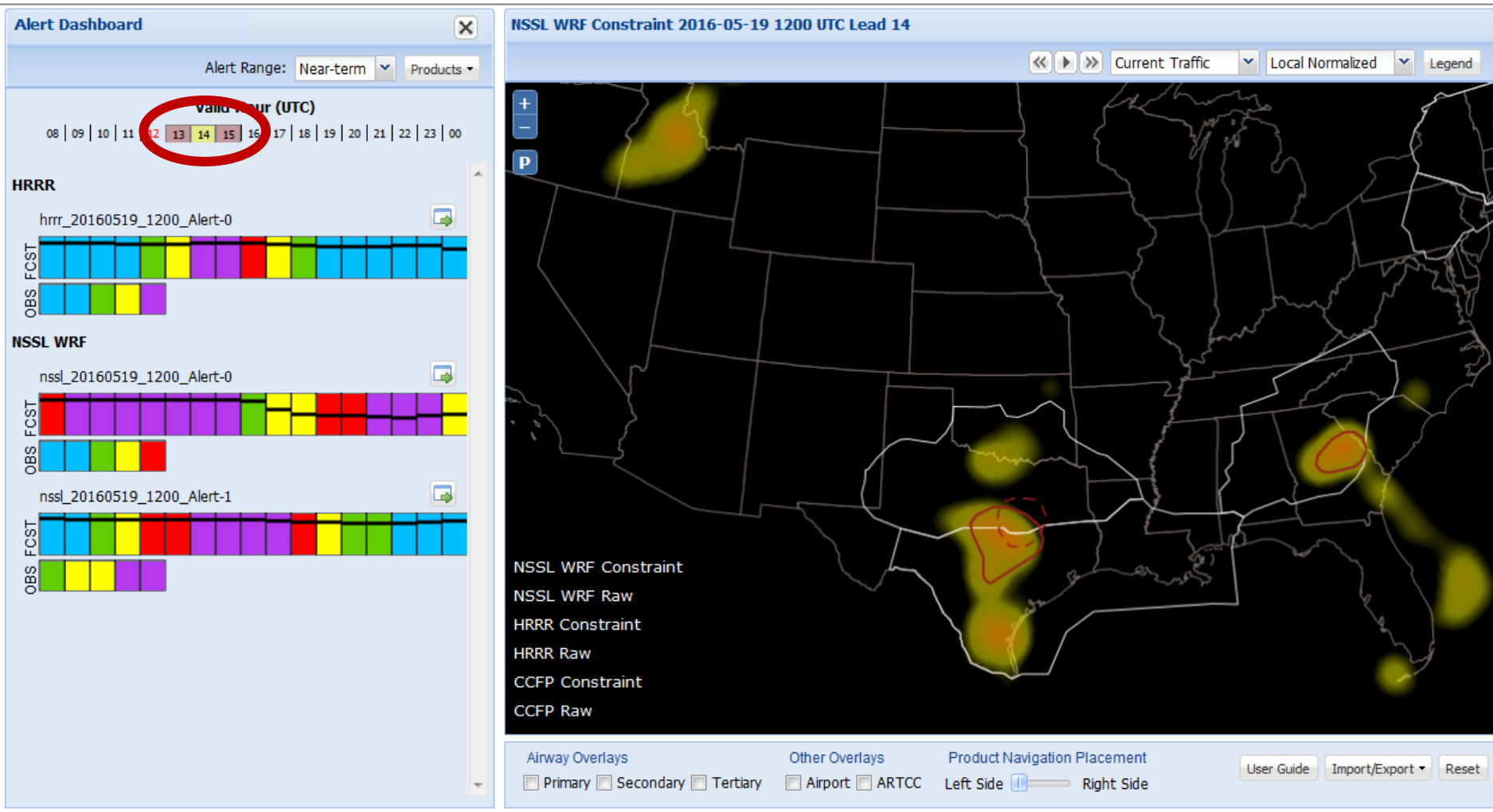
Alert Dashboard



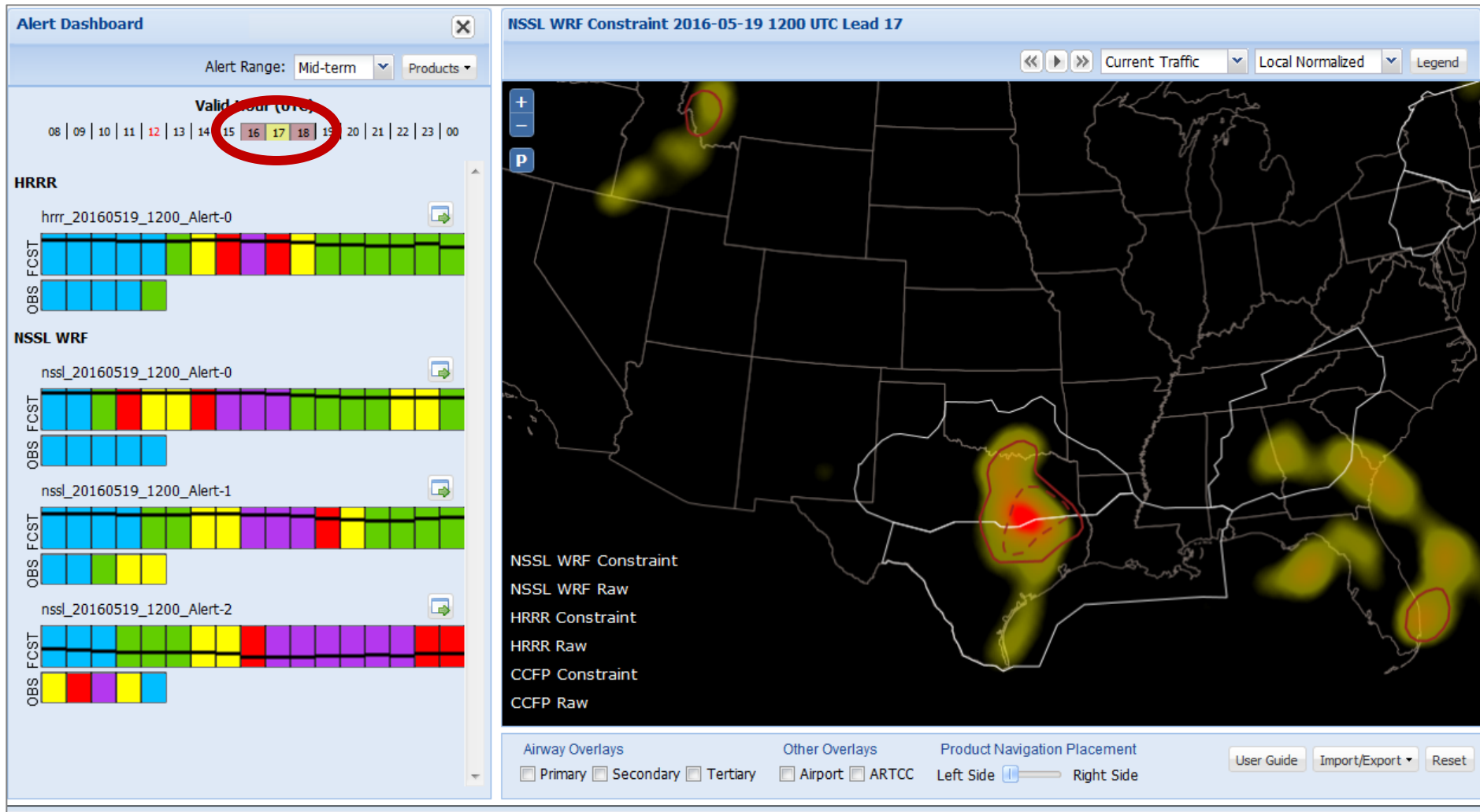
Alert Dashboard



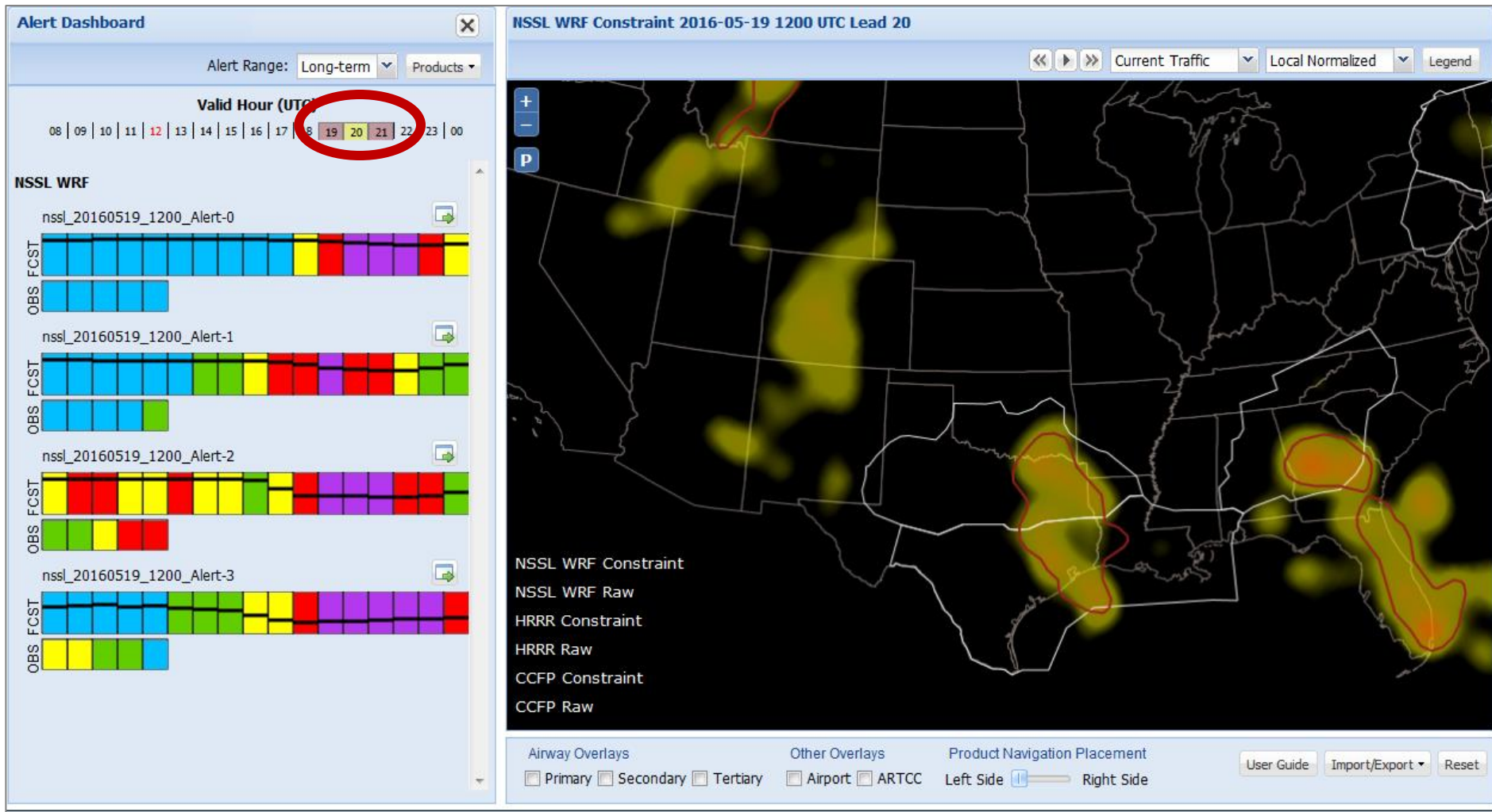
Alerts – Near Term



Alerts – Mid Term



Alerts – Long Term



Details View

U.S. Department of Commerce | National Oceanic & Atmospheric Administration | NOAA Research | National Weather Service

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Auto Update ☐ Reference Time: 05/19/2016 1200 Echo Top: >= 0 kft Products

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New York (KZNY) Details

OBS FCST

Houston (KZHU) Details

OBS FCST

Atlanta (KZTL) Details

OBS FCST

Fort Worth (KZFW) Details

OBS FCST

Boston (KZBW) Details

OBS FCST

Click **Details** to go to a more detailed view for a specific polygon.

NSSL WRF Constraint 2016-05-19 1200 UTC Lead 21

Current Traffic Local Normalized Legend

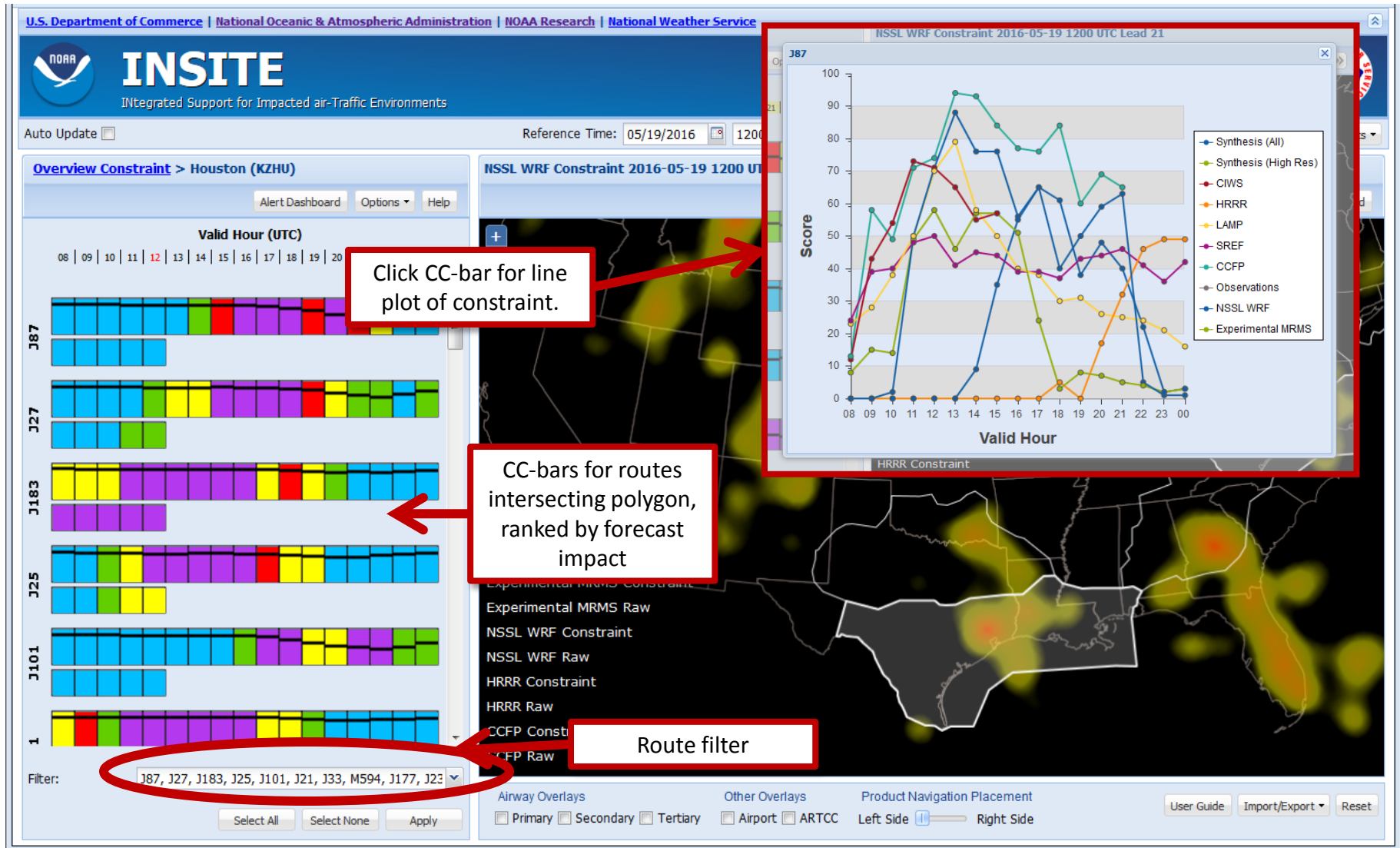
MRMS Constraint
MRMS Raw
NSSL WRF Raw
HRRR Constraint
HRRR Raw
CCFP Constraint
CCFP Raw

Airway Overlays Other Overlays Product Navigation Placement
☐ Primary ☐ Secondary ☐ Tertiary ☐ Airport ☐ ARTCC Left Side Right Side

User Guide Import/Export Reset

javascript:insite.app.getController('Common').displayOverview();

Details View



Questions/Comments?

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- 303-497-4850